



Results for Odin

Odin's demographic profile:

Call Name: Odin
Registered Name: R-STAR ALL FATHER ODIN HAS
TRU-VU
Breed: Collie
Sex: Male
Age: 5

Owner:
Registration #: DN33217801
Microchip/Tattoo: 956000002515894
Kit #: 10592
Report Date: 2017-04-22

Odin's genetic health profile:

- ✓ Odin is not at-risk for any of the diseases tested
- ✓ Odin is not a carrier for any of the diseases tested

Odin's appearance profile:

- ✓ Odin is a **Male**
- ✓ Odin's coat is likely **Straight, Long** and **Sable** or **Fawn** in color
- ✓ Odin's face likely **Has No Mask on the Muzzle** and a **Black** nose
- ✓ Odin's tail is likely **Normal** in length

These tests were developed and performed by Paw Print Genetics®, Spokane WA.

Explanation of Results

- Normal** A "normal" result means that your dog does not have the mutation that causes the associated genetic disease.
- Carrier** A "carrier" result indicates that your dog has inherited one copy of the mutation that has been reported to cause this genetic disease. Your dog may not be clinically affected by this mutation because two copies of the mutation are usually required to cause disease.
- At-Risk** An "at-risk" result indicates that your dog may have inherited one or two copies of the

mutation that has been reported to cause this genetic disease. Depending on the mode of genetic inheritance for this particular disease, inheriting one **or** two mutant copies of the gene may result in the disease.

You may want to consider ordering follow-up testing to confirm the results of this initial screen for any dog that is "at-risk" for a disease.

Blood and Clotting

Coagulation factor VII deficiency	Normal
Elliptocytosis	Normal
Glanzmann's thrombasthenia (Great Pyrenees type)	Normal
Glanzmann's thrombasthenia (Otterhound type)	Normal
Glycogen storage disease VII (Wachtelhund type)	Normal
Hemophilia A (Boxer type)	Normal
Hemophilia A (German Shepherd Dog, type 1)	Normal
Hemophilia A (German Shepherd Dog, type 2)	Normal
Hemophilia B (Cairn Terrier type)	Normal
Hemophilia B (Lhasa Apso type)	Normal
Hemophilia B (Rhodesian Ridgeback type)	Normal
Leukocyte adhesion deficiency, type III	Normal
May-Hegglin anomaly	Normal
P2RY12 receptor platelet disorder	Normal
Prekallikrein deficiency	Normal
Pyruvate kinase deficiency (Basenji type)	Normal
Pyruvate kinase deficiency (Beagle type)	Normal
Pyruvate kinase deficiency (Labrador Retriever type)	Normal
Pyruvate kinase deficiency (Pug type)	Normal
Pyruvate kinase deficiency (Terrier type)	Normal
Thrombopathia (American Eskimo Dog type)	Normal
Thrombopathia (Basset Hound type)	Normal
Thrombopathia (Newfoundland type)	Normal
Von Willebrand disease I	Normal
Von Willebrand disease II	Normal
Von Willebrand disease III (Kooikerhondje type)	Normal
Von Willebrand disease III (Scottish Terrier type)	Normal

Cancer

Renal cystadenocarcinoma and nodular dermatofibrosis	Normal
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Dental

Amelogenesis imperfecta	Normal
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Drug Metabolism

Multidrug resistance 1

Normal

Eyes

Collie eye anomaly

Normal

Cone degeneration

Normal

Cone degeneration (German Shorthaired Pointer type)

Normal

Congenital stationary night blindness

Normal

Dry eye curly coat syndrome

Normal

Early retinal degeneration

Normal

GM1 Gangliosidosis (Alaskan Husky type)

Normal

GM1 Gangliosidosis (Portuguese Water Dog type)

Normal

GM1 Gangliosidosis (Shiba Inu type)

Normal

GM2 Gangliosidosis (Poodle type)

Normal

Hereditary cataracts

Normal

Hereditary cataracts (Australian Shepherd type)

Normal

Juvenile Laryngeal Paralysis and Polyneuropathy

Normal

Multifocal retinopathy 1

Normal

Multifocal retinopathy 2

Normal

Multifocal retinopathy 3

Normal

Primary lens luxation

Normal

Primary open angle glaucoma

Normal

Progressive retinal atrophy (Basenji type)

Normal

Progressive retinal atrophy (Bullmastiff/Mastiff type)

Normal

Progressive retinal atrophy (Irish Setter type)

Normal

Progressive retinal atrophy (Sloughi type)

Normal

Progressive retinal atrophy, Cone-rod dystrophy 1

Normal

Progressive retinal atrophy, Cone-rod dystrophy 2

Normal

Progressive retinal atrophy, Cone-rod dystrophy 3

Normal

Progressive retinal atrophy, Golden Retriever 1

Normal

Progressive retinal atrophy, Golden Retriever 2

Normal

Progressive retinal atrophy, PRA1 (Papillon type)

Normal

Progressive retinal atrophy, Progressive rod-cone degeneration

Normal

Progressive retinal atrophy, Rod-cone dysplasia 3

Normal

Progressive retinal atrophy, generalized

Normal

Hormonal

Congenital hypothyroidism with goiter (Terrier type)

Normal

Immune System

Complement 3 deficiency

Normal

Cyclic neutropenia	Normal
Leukocyte adhesion deficiency, type I	Normal
Leukocyte adhesion deficiency, type III	Normal
Primary ciliary dyskinesia	Normal
Severe combined immunodeficiency disease (Terrier type)	Normal
Severe combined immunodeficiency disease (Wetterhoun type)	Normal
Severe combined immunodeficiency disease, X-linked (Basset Hound type)	Normal
Severe combined immunodeficiency disease, X-linked (Corgi type)	Normal
Trapped neutrophil syndrome	Normal

Liver/Gastrointestinal

Gallbladder mucoceles	Normal
Glycogen storage disease IIIa	Normal
Intestinal cobalamin malabsorption (Beagle type)	Normal
Intestinal cobalamin malabsorption (Border Collie type)	Normal

Metabolic

Adult-onset neuronal ceroid lipofuscinosis	Normal
GM1 Gangliosidosis (Alaskan Husky type)	Normal
GM1 Gangliosidosis (Portuguese Water Dog type)	Normal
GM1 Gangliosidosis (Shiba Inu type)	Normal
GM2 Gangliosidosis (Japanese Chin type)	Normal
GM2 Gangliosidosis (Poodle type)	Normal
Globoid cell leukodystrophy (Irish Setter type)	Normal
Globoid cell leukodystrophy (Terrier type)	Normal
Glycogen storage disease IIIa	Normal
Glycogen storage disease Ia	Normal
Glycogen storage disease VII (Wachtelhund type)	Normal
Intestinal cobalamin malabsorption (Beagle type)	Normal
Intestinal cobalamin malabsorption (Border Collie type)	Normal
L-2-hydroxyglutaric aciduria (Staffordshire Bull Terrier type)	Normal
Mucopolysaccharidosis I	Normal
Mucopolysaccharidosis IIIA (Dachshund type)	Normal
Mucopolysaccharidosis IIIA (New Zealand Huntaway type)	Normal
Mucopolysaccharidosis VII (Shepherd type)	Normal
Neuronal ceroid lipofuscinosis 1	Normal
Neuronal ceroid lipofuscinosis 10	Normal
Neuronal ceroid lipofuscinosis 2	Normal
Neuronal ceroid lipofuscinosis 4A	Normal
Neuronal ceroid lipofuscinosis 5	Normal
Neuronal ceroid lipofuscinosis 6	Normal
Neuronal ceroid lipofuscinosis 8 (Australian Shepherd type)	Normal
Neuronal ceroid lipofuscinosis 8 (Setter type)	Normal
Pompe disease	Normal
Pyruvate dehydrogenase deficiency	Normal

Pyruvate kinase deficiency (Basenji type)	Normal
Pyruvate kinase deficiency (Beagle type)	Normal
Pyruvate kinase deficiency (Labrador Retriever type)	Normal
Pyruvate kinase deficiency (Pug type)	Normal
Pyruvate kinase deficiency (Terrier type)	Normal

Midline Defect

Juvenile Laryngeal Paralysis and Polyneuropathy	Normal
Spinal dysraphism (Weimaraner type)	Normal

Musculoskeletal

Adult-onset neuronal ceroid lipofuscinosis	Normal
Alaskan Malamute polyneuropathy	Normal
Chondrodysplasia (Karelian Bear Dog and Norwegian Elkhound type)	Normal
Congenital myasthenic syndrome (Labrador Retriever type)	Normal
Congenital myasthenic syndrome (Old Danish Pointer type)	Normal
Degenerative myelopathy	Normal
Exercise-induced collapse	Normal
GM1 Gangliosidosis (Alaskan Husky type)	Normal
GM1 Gangliosidosis (Portuguese Water Dog type)	Normal
GM1 Gangliosidosis (Shiba Inu type)	Normal
Glycogen storage disease IIIa	Normal
Glycogen storage disease VII (Wachtelhund type)	Normal
Greyhound polyneuropathy	Normal
Inherited myopathy of Great Danes	Normal
Juvenile Laryngeal Paralysis and Polyneuropathy	Normal
Mucopolysaccharidosis I	Normal
Mucopolysaccharidosis VII (Shepherd type)	Normal
Muscular Dystrophy (Golden Retriever Type)	Normal
Myostatin deficiency (Whippet and Longhaired Whippet type)	Normal
Myotonia congenita (Australian Cattle Dog type)	Normal
Myotonia congenita (Schnauzer type)	Normal
Myotubular myopathy 1	Normal
Osteochondrodysplasia	Normal
Osteogenesis imperfecta (Beagle type)	Normal
Osteogenesis imperfecta (Golden Retriever type)	Normal
Pembroke Welsh Corgi Duchenne muscular dystrophy	Normal
Polyneuropathy (Leonberger and Saint Bernard type)	Normal
Pompe disease	Normal
Skeletal dysplasia 2	Normal
Vitamin D dependent rickets, type II (Pomeranian type)	Normal

Neurologic

Adult-onset neuronal ceroid lipofuscinosis	Normal
Alaskan Husky encephalopathy	Normal
Alaskan Malamute polyneuropathy	Normal
Benign familial juvenile epilepsy	Normal
Canine multiple system degeneration (Chinese Crested type)	Normal
Canine multiple system degeneration (Kerry Blue Terrier type)	Normal
Cerebellar ataxia (Finnish Hound type)	Normal
Congenital myasthenic syndrome (Labrador Retriever type)	Normal
Congenital myasthenic syndrome (Old Danish Pointer type)	Normal
Degenerative myelopathy	Normal
Episodic falling syndrome	Normal
Exercise-induced collapse	Normal
GM1 Gangliosidosis (Alaskan Husky type)	Normal
GM1 Gangliosidosis (Portuguese Water Dog type)	Normal
GM1 Gangliosidosis (Shiba Inu type)	Normal
GM2 Gangliosidosis (Japanese Chin type)	Normal
GM2 Gangliosidosis (Poodle type)	Normal
Globoid cell leukodystrophy (Irish Setter type)	Normal
Globoid cell leukodystrophy (Terrier type)	Normal
Greyhound polyneuropathy	Normal
Juvenile Laryngeal Paralysis and Polyneuropathy	Normal
L-2-hydroxyglutaric aciduria (Staffordshire Bull Terrier type)	Normal
Late onset ataxia	Normal
Mucopolysaccharidosis I	Normal
Mucopolysaccharidosis IIIA (Dachshund type)	Normal
Mucopolysaccharidosis IIIA (New Zealand Huntaway type)	Normal
Myotonia congenita (Australian Cattle Dog type)	Normal
Myotonia congenita (Schnauzer type)	Normal
Narcolepsy (Dachshund type)	Normal
Narcolepsy (Doberman Pinscher type)	Normal
Narcolepsy (Labrador Retriever type)	Normal
Neonatal cerebellar cortical degeneration	Normal
Neonatal encephalopathy with seizures	Normal
Neuronal ceroid lipofuscinosis 1	Normal
Neuronal ceroid lipofuscinosis 10	Normal
Neuronal ceroid lipofuscinosis 2	Normal
Neuronal ceroid lipofuscinosis 4A	Normal
Neuronal ceroid lipofuscinosis 5	Normal
Neuronal ceroid lipofuscinosis 6	Normal
Neuronal ceroid lipofuscinosis 8 (Australian Shepherd type)	Normal
Neuronal ceroid lipofuscinosis 8 (Setter type)	Normal
Polyneuropathy (Leonberger and Saint Bernard type)	Normal
Sensory ataxic neuropathy	Normal
Spinocerebellar ataxia	Normal
Startle disease	Normal

Neuromuscular

Globoid cell leukodystrophy (Irish Setter type)

Normal

Globoid cell leukodystrophy (Terrier type)

Normal

Reproduction

Primary ciliary dyskinesia

Normal

Respiratory

Primary ciliary dyskinesia

Normal

Skin and Hair

Anhidrotic ectodermal dysplasia

Normal

Dry eye curly coat syndrome

Normal

Dystrophic epidermolysis bullosa

Normal

Ectodermal dysplasia

Normal

Epidermolytic hyperkeratosis

Normal

Hereditary footpad hyperkeratosis (Irish Terrier and Kromfohrländer type)

Normal

Hereditary nasal parakeratosis

Normal

Ichthyosis (Golden Retriever type)

Normal

Renal cystadenocarcinoma and nodular dermatofibrosis

Normal

Urinary Tract

Cystinuria (Australian Cattle Dog type)

Normal

Cystinuria (Miniature Pinscher type)

Normal

Cystinuria (Newfoundland type)

Normal

Familial nephropathy (Cocker Spaniel type)

Normal

Familial nephropathy (English Springer Spaniel type)

Normal

Fanconi syndrome

Normal

Hereditary nephritis (Samoyed type)

Normal

Hyperuricosuria

Normal

Persistent Müllerian duct syndrome

Normal

Primary ciliary dyskinesia

Normal

Primary hyperoxaluria

Normal

Renal cystadenocarcinoma and nodular dermatofibrosis

Normal